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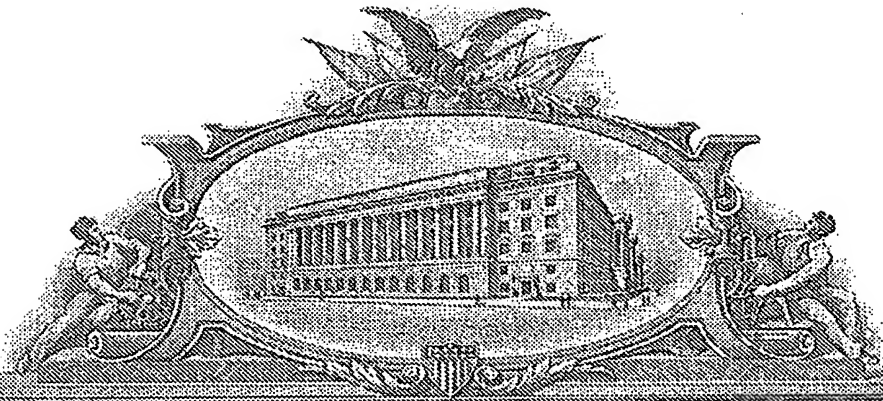
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APPLICATION NUMBER: 60/664,330

FILING DATE: March 23, 2005

RELATED PCT APPLICATION NUMBER: PCT/US06/10646

THE COUNTRY CODE AND NUMBER OF YOUR PRIORITY APPLICATION, TO BE USED FOR FILING ABROAD UNDER THE PARIS CONVENTION, IS US60/664,330



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PROVISIONAL APPLICATION FOR PATENT COVER SHEET

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c).

Express Mail Label No. ER 596396624 US

INVENTOR(S)		
Given Name (first and middle (if any))	Family Name or Surname	Residence (City and either State or Foreign Country)
Marc Chase	Weinstein	Roslyn Harbor, New York
Additional inventors are being named on the _____ separately numbered sheets attached hereto		
TITLE OF THE INVENTION (500 characters max):		
Electronic Device Having A Slidable Cover		
Direct all correspondence to: CORRESPONDENCE ADDRESS		
<input checked="" type="checkbox"/> The address corresponding to Customer Number: 25,894		
OR		
<input type="checkbox"/> Firm or Individual Name		
Address		
City	State	Zip
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ENCLOSED APPLICATION PARTS (check all that apply)		
<input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76		
<input checked="" type="checkbox"/> Specification Number of Pages <u>5</u>		
<input checked="" type="checkbox"/> Drawing(s) Number of Sheets <u>4</u>		
<input type="checkbox"/> CD(s), Number of CDs _____		
<input checked="" type="checkbox"/> Other (specify) <u>1 COVER PAGE, RETURN RECEIPT, POST CARD</u>		
Application Size Fee: If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(e).		
METHOD OF PAYMENT OF FILING FEES AND APPLICATION SIZE FEE FOR THIS PROVISIONAL APPLICATION FOR PATENT		
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.		TOTAL FEE AMOUNT (\$)
<input checked="" type="checkbox"/> A check or money order is enclosed to cover the filing fee and application size fee (if applicable).		100
<input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached		
<input type="checkbox"/> The Director is hereby authorized to charge the filing fee and application size fee (if applicable) or credit any overpayment to Deposit Account Number: _____		
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The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.		
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<input type="checkbox"/> Yes, the name of the U.S. Government agency and the Government contract number are: _____		

SIGNATURE Lawrence C. EdelmanDate March 23, 2005TYPED or PRINTED NAME Lawrence C. EdelmanREGISTRATION NO. 29,299TELEPHONE 732 771 3775

(if appropriate)

Docket Number. 05MW01US**USE ONLY FOR FILING A PROVISIONAL APPLICATION FOR PATENT**

This collection of information is required by 37 CFR 1.51. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 8 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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FEE TRANSMITTAL For FY 2005

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT	(\$)	100	Complete if Known
			Application Number
			Filing Date
			First Named Inventor
			Examiner Name
			Art Unit
			Attorney Docket No.

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FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	100

2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
HP - 20 or HP =	x	=	
HP = highest number of total claims paid for, if greater than 20.			
Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
- 3 or HP =	x	=	
HP = highest number of independent claims paid for, if greater than 3.			

3. APPLICATION SIZE FEE

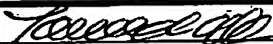
If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
- 100 =	/ 50 =	(round up to a whole number) x	=	

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): _____

SUBMITTED BY		Registration No.	Telephone
Signature		(Attorney/Agent) 29,299	732 771 3775
Name (Print/Type)	Lawrence C. Edelman, Esq.	Date March 23, 2005	

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Express Mail No. ER 596396624US

Mailing Date: March 23, 2005

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
PROVISIONAL APPLICATION FOR LETTERS PATENT ENTITLED**

ELECTRONIC DEVICE HAVING A SLIDABLE COVER

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05MW01US

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Electronic Device Having A Slidable Cover**SUMMARY**

[0001] An electronic device assembly includes at least one component, such as an LCD display or keypad, mounted in the housing of the device, which component can benefit from protection. A protective cover panel is slidably mounted to the housing and moveable to first and second positions relative to the housing. In one embodiment, the cover panel has a first portion that is solid so as to form a protective barrier, and a second portion that is at least partially used to form a viewing window. When the cover panel is in the first position, the first portion is aligned in juxtaposition with the component so as to form a protective cover over the component, and the second portion forms a viewing window that allows an image to be visible from a front of the device. When the cover panel is in the second position, the first portion is moved so as to allow the component to be visible to a user of the device, and the second portion is moved so as to extend past the housing of the device and display in the viewing window a supplemental image which is mounted on a portion of the cover panel so as to move with movement of the cover panel.

[0002] In an alternative embodiment of the invention, the cover can include two supplemental image substrates mounted for movement therewith, so that a combined image from both substrates is visible when the cover panel is in the second position, but only the image from one substrate is visible in the viewing window when the cover panel is in the first position.

[0003] In a further alternative embodiment of the invention, the cover includes a supplemental image substrate mounted for movement therewith, so that an image from the substrate is visible when the cover panel is in the second position, but when the cover panel is in the first position the image from that substrate is hidden behind a portion of the device housing, and an image on an outwardly facing portion of the housing is visible in the viewing window.

BRIEF DESCRIPTION OF THE DRAWINGS

[0004] These and other advantages of the invention will become apparent upon reading the following detailed description and upon referring to the drawings in which:

[0005] Fig. 1 shows a calculator embodiment of the invention, wherein the cover is in a closed position.

[0006] Fig. 2 shows the calculator embodiment of the invention, wherein the cover is in an open position.

[0007] Fig. 3 shows a side-section view of the calculator embodiment of the invention, wherein the cover is in the closed position.

[0008] Fig.'s 4 and 5 show enlarged side-section views of the top portion calculator embodiment shown in Fig.'s 1 and 2.

[0009] Fig.'s 6 and 7 show enlarged side-perspective views an alternative embodiment of the top portion calculator embodiment of the invention.

[0010] Fig.'s 8, 9 and 10 show photographs of two differently shaped calculators including the invention, where the covers are shown in the fully closed, partially open, and fully open positions, respectively.

[0011] While the invention will be described in conjunction with the illustrated embodiments, it will be understood that it is not intended to limit the invention to such embodiments. On the contrary, it is intended to cover all alternatives, modifications and equivalents as may be included within the spirit and scope of the invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

[0012] In a preferred embodiment the electronic device 10 of the present invention comprises a handheld or desk calculator, but can include any type of device which will benefit from a protective cover that moves in order to gain access to a component of the device, such as an LCD display or keypad, which is part of a calculator, PDA, a cell phone, etc..

[0013] In the embodiment of the invention shown in the drawings, a sliding panel 12 includes a lower portion 14 that covers an LCD display of a calculator, so as to provide protection for the LCD display 16 from scratching, dust or breakage when the device is not in use. This panel also includes an upper portion 18 that in the illustrated embodiment can form a viewing window by comprising an opening that reveals an image 20 printed on a substrate that is aligned with the viewing window. This substrate can be mounted in a fixed position inside or on the housing of the device (such as shown by image 22 in Fig.'s 6 and 7), or can be mounted to the cover so as to move in coordination therewith (such as shown by image 20 printed on substrate 24 in Fig.'s 1-5).

[0014] In order to reveal the LCD screen for use, the panel 12 is slidable relative to the housing of the device, using any one of several well known slidable mounting techniques, such as tracks or by using a groove, etc, not specifically shown. As the panel 12 slides upward, the upper portion thereof, comprising in the illustrated embodiment a viewing window 18, moves beyond the confines of the calculator housing. As it moves, more and more of the supplemental image is revealed in the viewing window. More specifically, in the embodiment shown in Fig.'s 1-5, a supplemental image substrate 26 is mounted to a top portion of the cover 12 so as to be viewable through the viewing window as the cover is moved past the confines of the housing. In this embodiment, when the cover is moved to the second position the original image displayed in the viewing window is no longer visible, since it is hidden behind the lower portion 14 of cover 12.

[0015] In another embodiment of the invention, the cover can include first and second supplemental image substrates 24 and 26, mounted to the cover so as to be viewable through the viewing window as the cover is moved from the first position to the second position, i.e., as it moves past the confines of the housing. The first supplemental image may be translucent and include an image 20 thereon which is correlated with and "adds-to" the second supplemental image 20b. In this embodiment the housing includes a "divider substrate" 25 mounted at a fixed position therein, such as a white card, and the two supplemental image substrates 24 and 26 are positioned so that one falls on either side of the white card, as shown in Fig's 4 and 5. When the cover is in the first position, only the translucent image is visible through the viewing window,

since it is on front of the white card, however, as noted above, an exciting effect happens as the cover is moved to the second position, since the first and second supplemental images combine as the viewing window extends past the boundary of the white card and the border of the housing, thereby changing the “display” in the viewing window from only the image 20 on the first substrate, to the combined image 20b of the first and second substrates.

[0016] Thus, all of the embodiments of the invention described above make dual use of the user's movement of the protective cover to gain visual access to the LCD display, the first use being the conventional and expected use of uncovering the LCD display, but the second use being that the same movement also creates a separate and distinct effect by revealing an image, which can be visually exciting or provide information for the user.

[0017] While this invention has been particularly shown and described with references to preferred embodiments thereof, it will be understood by those skilled in the art that various changes in form and details may be made therein without departing from the sphere and scope of the invention. In fact, many such changes are already noted in this description but it should be realized that the above-noted changes were not exhaustive, and merely exemplary. Those skilled in the art will recognize, or be able to ascertain using no more than routine experimentation, many equivalents to the specific embodiments of the invention described herein.

[0018] For example, as described above, the panel may not have an initial image on a transparent substrate but may be solid, with or without some type of image or graphic on the solid panel. For example, Fig.'s 6 and 7 show the word “Logo” on the lower portion of the cover, and the upper “viewing window” portion of the cover shows an image “message” that is printed on the outside of the housing. Such message can be, for example: “What's Your Dose?” However, when the panel is moved upward, a new image is revealed in the viewing window in coordination with the movement of the cover, which image is printed, for example on a single substrate 26 of the type shown in Fig. 5, which image can be the message: “Your Dosage Is 150 mg.”

[0019] Thus, there has been provided in accordance with the invention a method and apparatus to achieve an exciting visual effect or provide additional image or information, when moving a protective cover on an electronic device, which fully satisfies the objects, aims and advantages set forth above. While the invention has been described in conjunction with specific embodiments thereof, it is evident that many alternative, modifications and variations will be apparent to those skilled in the art in light of the foregoing description. Accordingly, it is intended to embrace all such alternatives, modifications and variations as fall within the spirit and broad scope of the invention.

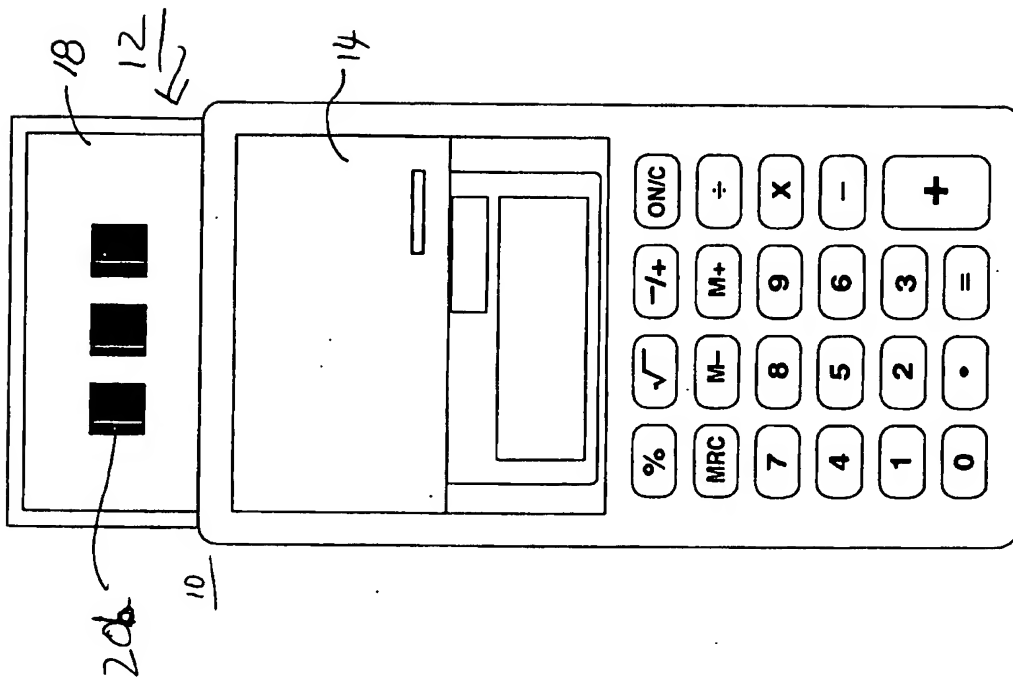


Fig. 2

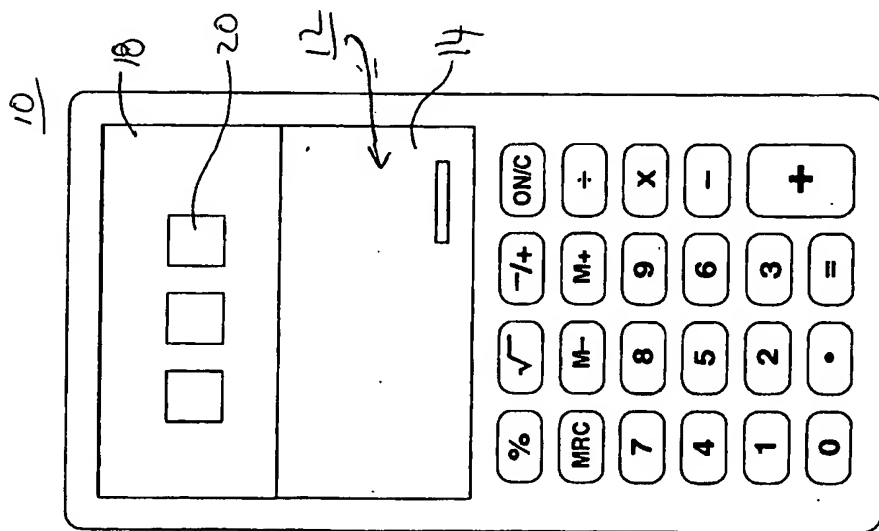


Fig. 1

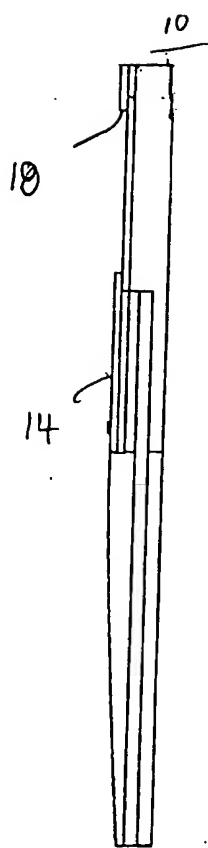


Fig. 3

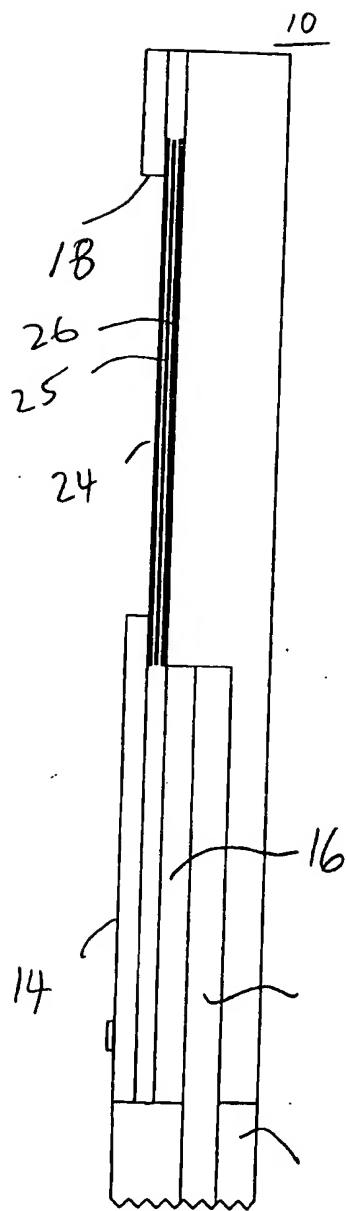


Fig. 4

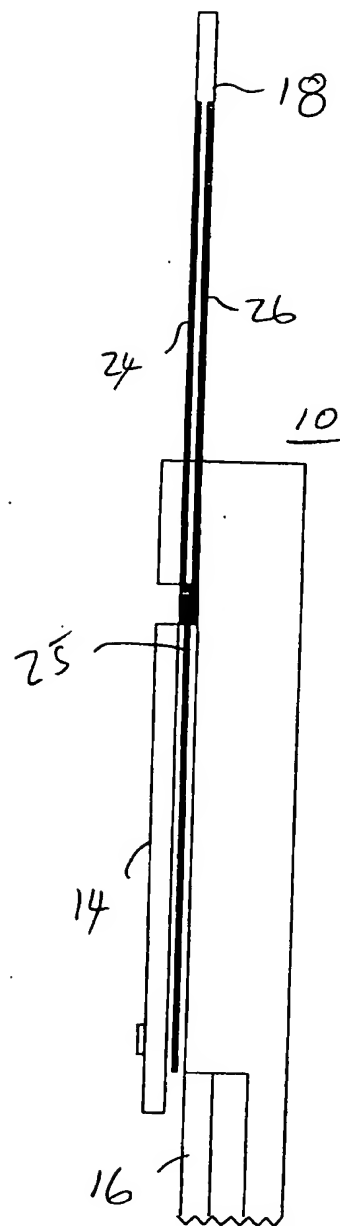
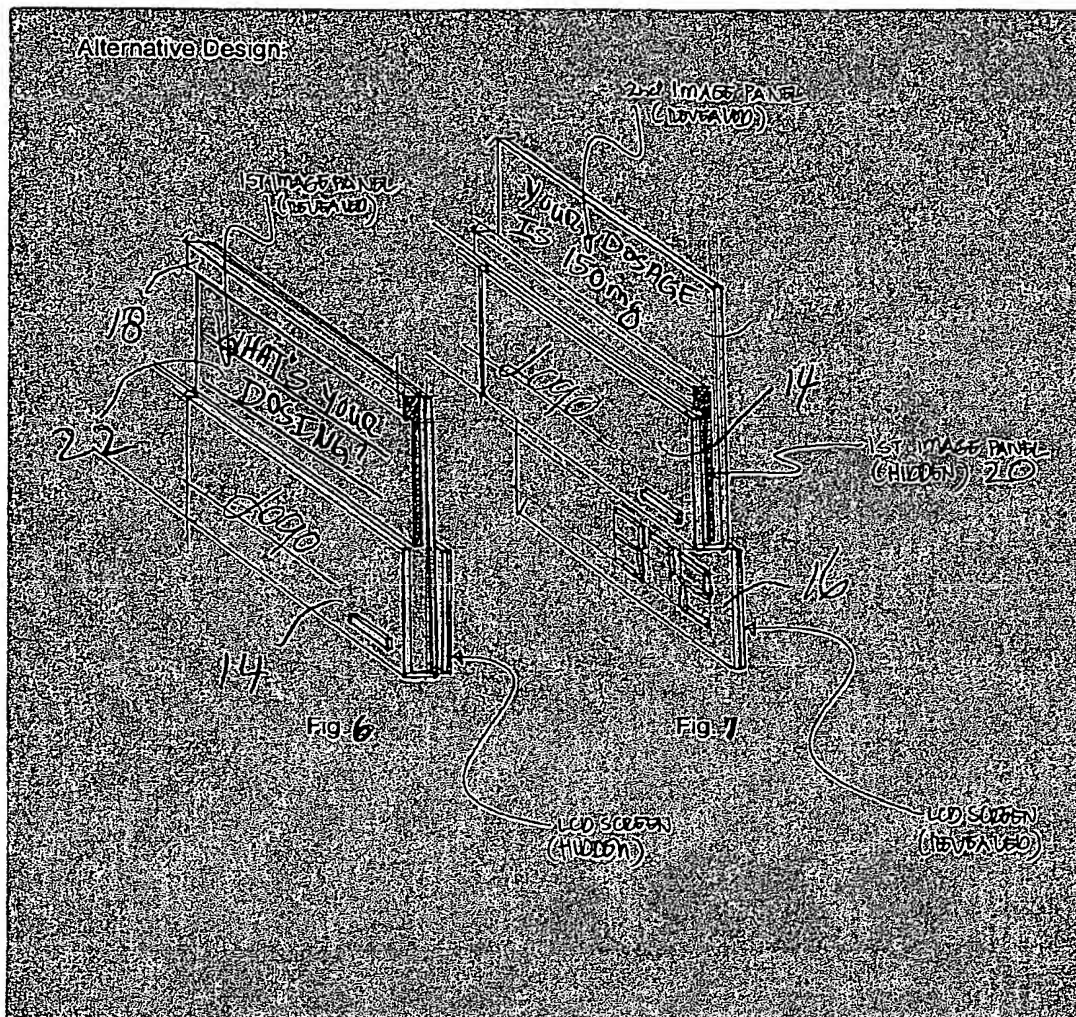


Fig. 5



MAGIC WINDOW CALCULATOR

